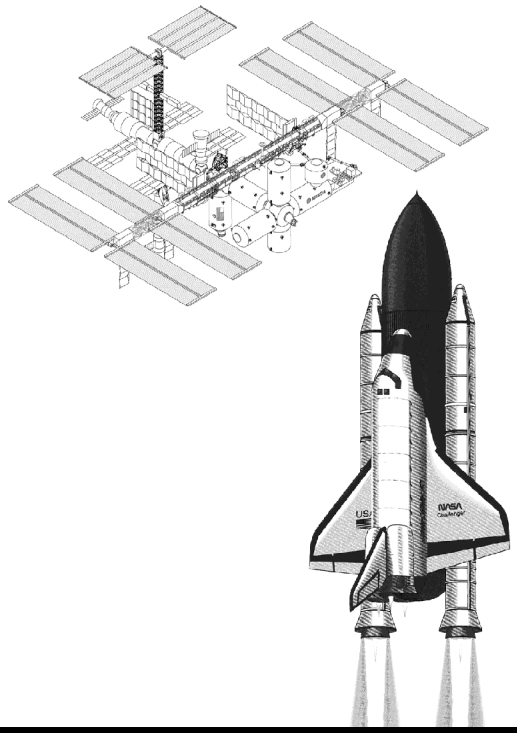


Name of Component or Assembly:			Reference Designation Number:
Part Number:	Rev:	Serial Number:	Parts Tag Number:
EPL Number:	Applicable EO's:		Program:
Manufacturer (Name and Address):			Emergency Contact (Name/Address/Phone):
Contract Number & Date (Mo/Day/Yr):	Contract Mods & Dates:		Designer's Address MSFC (Div.,Br.,Sec.):

After Launch This

Log Book

Will Be Returned To...

LOG BOOK

Marshall

Space Flight Center

Huntsville - Alabama

Section 1:	Identification Data:
Section 2:	Special Instructions:
Section 3:	Life History:
Section 4:	Test Data:

instructions . . .

This Log Book is a very important document and must be accounted for at all times. It is intended to reduce the possibility of failures of various flight components in the NASA Space Programs.

1. Keep this log book with the hardware. Complete log book per MWI 8730.1.

2. Ship this log book together with the hardware.

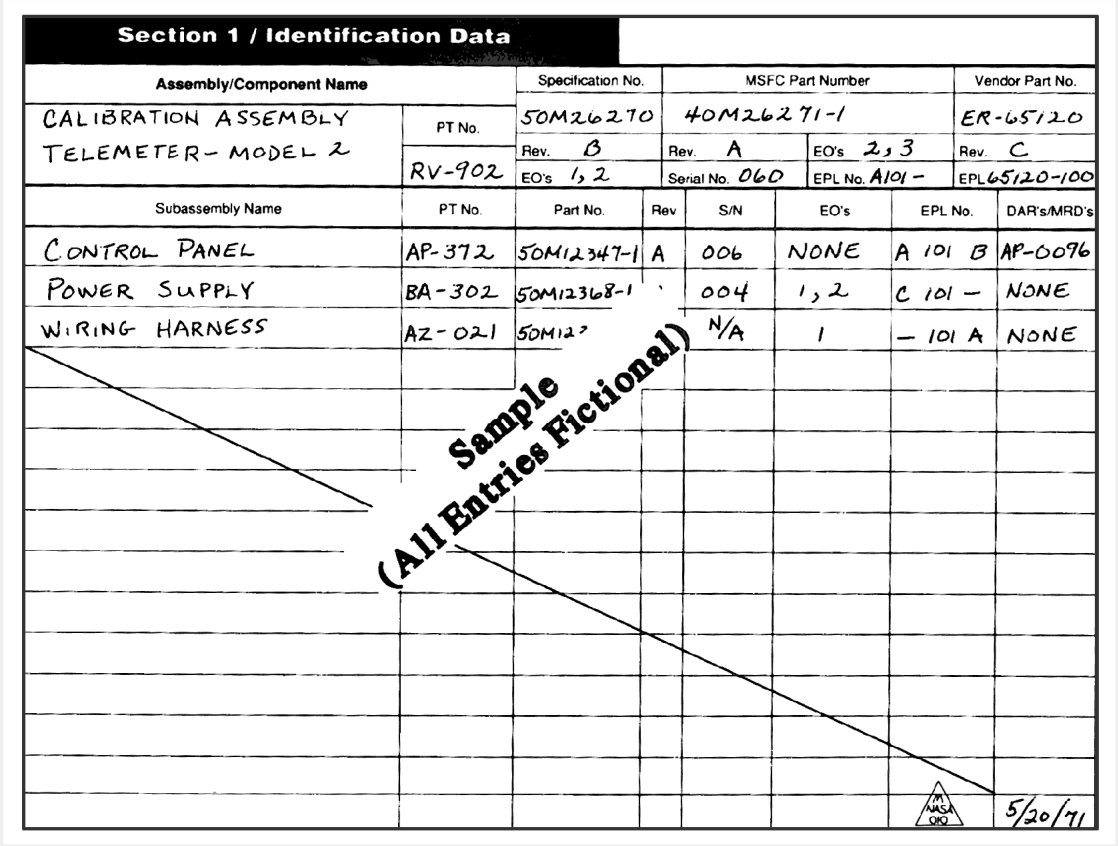
3. Inform yourself of previous operations by reading this log book before doing anything with the hardware.

4. Make all entries in this log book with ballpoint pen or ink.

5. When an incorrect entry is made, draw a line through it, record the correct entry, initial and date.

6. In the event of loss of the original log book, the organization having possession of the hardware at the time of loss is to initiate a new copy and complete as far as possible. An entry is to be made in the new copy denoting the approximate date of loss and initiation of the new one. No entries shall be made in the reconstructed log book without valid historical data. The material review board should determine the effect of the missing log book and course of action, if the mission data is not found.

7. If this log book is found disassociated from its component, finder will please return it to the designer's address, located on the front cover.



Section 1 / Identification Data

Assembly/Component Name	PT No.	Specification No.	MSFC Part Number		Vendor Part No.
CALIBRATION ASSEMBLY TELEMETER – MODEL 2	RV-902	50M26270 Rev. B EO's 1, 2	40M26271-1 Rev. A Serial No. 060	EO's 2, 3 EPL No. A101 –	ER-65120 Rev. C EPL 65120-100

Subassembly Name	PT No.	Part No.	Rev	S/N	EO's	EPL No.	DAR's/MRD's
CONTROL PANEL	AP-372	50M12347-1	A	006	NONE	A 101 B	AP-0096
POWER SUPPLY	BA-302	50M12368-1		004	1, 2	C 101 –	NONE
WIRING HARNESS	AZ-021	50M12?		N/A	1	– 101 A	NONE
						MSFC QRO	5/20/71

Sample (All Entries Fictional)

identification data . . .

Section 1:

(1) List assembly/ component name, parts tag number, MSFC specification number with revision and EO's, vendor part number and revision, serial number and engineering parts list (EPL) number.

(2) Information on subassemblies/ major components that are serialized or time and cycle sensitive should be recorded when included as a part of the main assembly.

(3) All data entered in this section should reflect the as-built configuration and shall not be updated. (Changes to the as-built configuration shall be recorded in Section 3, Life History.)

(4) Quality will certify by stamping and dating the bottom right-hand corner of the last page of Section 1 to signify that the identification data accurately reflects the as-built configuration of the article at the time of layout/build-up inspection.

section 1

Section 1 / Identification Data

Assembly/Component Name		Specification No.	MSFC Part No.		Vendor Part No.
	PT No.				
		Rev.	Rev.	EO's	Rev.
		EO's	S/N	EPL No.	EPL

Subassembly Name	PT No.	Part No.	Rev.	S/N	EO's	EPL No.	DAR's/MRD's

Section 1 / Identification Data - Continuation

Subassembly Name	PT	Part No.	Rev.	S/N	EO's	EPL No.	DAR's/MRD's

Allowable Operating Time/Cycles	1200 hours	Section 2 / Special Instructions
Calendar Life	7 years	

Date	Instructions/Storage Time/Environmental Levels/Cleanliness/Handling/Flight Disqualification
2/01/71	Record the following variables data in Section 4 during post manufacturing checkout:
	1. Calibration cycle time per paragraph 3.3.4c of Specification 50M26270B.
	2. Frequency check per paragraph 3.3.6d of Specification 50M26270B.
2/01/71	Electrical circuitry contains polarity sensitive items. Reference Note 7 of Drawing 40M26271A.
2/01/71	Record all unit "Power On" time in hours/minutes in Se
2/01/71	Record cycles on relay P/N 50M12370 in S
	1. Energizing and de-energizing constitutes one cycle.

Sample
(All Entries Fictional)

special instructions . . .

Section 2:

(1) List special safety precautions required to prevent death or injury to personnel and/or damage to the hardware.

(2) List special retest, replacement, and service requirements.

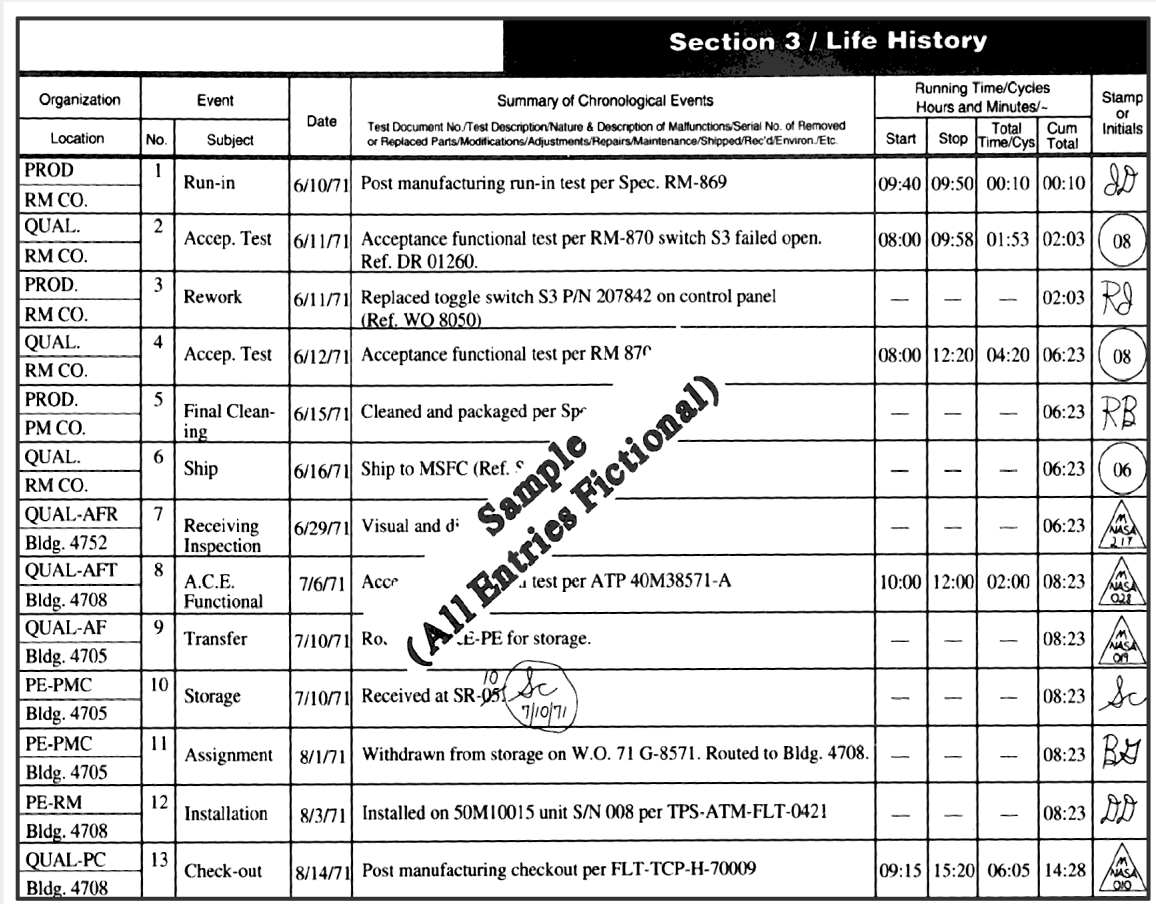
(3) Factors which would disqualify a component for flight or restrict its use should be listed here. Factors to be considered should include limiting aspects of environmental exposure, etc.

(4) Design Engineering will specify the parameters that define a cycle.

(5) Any other special instructions of any nature should be entered here.

Allowable Operating Time/Cycles:	**Section 2 / Special Instructions**
Calendar Life:	

Date	Instructions / Storage Time / Environmental Levels / Cleanliness / Handling / Flight Disqualification



Section 3 / Life History

Organization / Location	Event No.	Event Subject	Date	Summary of Chronological Events (Test Document No./Test Description/Nature & Description of Malfunctions/Serial No. of Removed or Replaced Parts/Modifications/Adjustments/Repairs/Maintenance/Shipped/Rec'd/Environ./Etc.)	Running Time/Cycles Hours and Minutes/- Start	Stop	Total Time/Cys	Cum Total	Stamp or Initials
PROD / RM CO.	1	Run-in	6/10/71	Post manufacturing run-in test per Spec. RM-869	09:40	09:50	00:10	00:10	
QUAL. / RM CO.	2	Accep. Test	6/11/71	Acceptance functional test per RM-870 switch S3 failed open. Ref. DR 01260.	08:00	09:58	01:53	02:03	08
PROD. / RM CO.	3	Rework	6/11/71	Replaced toggle switch S3 P/N 207842 on control panel (Ref. WO 8050)	—	—	—	02:03	
QUAL. / RM CO.	4	Accep. Test	6/12/71	Acceptance functional test per RM 870	08:00	12:20	04:20	06:23	08
PROD. / PM CO.	5	Final Clean-ing	6/15/71	Cleaned and packaged per Sp-	—	—	—	06:23	
QUAL. / RM CO.	6	Ship	6/16/71	Ship to MSFC (Ref. S	—	—	—	06:23	06
QUAL-AFR / Bldg. 4752	7	Receiving Inspection	6/29/71	Visual and d-	—	—	—	06:23	
QUAL-AFT / Bldg. 4708	8	A.C.E. Functional	7/6/71	Acce- test per ATP 40M38571-A	10:00	12:00	02:00	08:23	
QUAL-AF / Bldg. 4705	9	Transfer	7/10/71	Ro- E-PE for storage.	—	—	—	08:23	
PE-PMC / Bldg. 4705	10	Storage	7/10/71	Received at SR-05	—	—	—	08:23	
PE-PMC / Bldg. 4705	11	Assignment	8/1/71	Withdrawn from storage on W.O. 71 G-8571. Routed to Bldg. 4708.	—	—	—	08:23	
PE-RM / Bldg. 4708	12	Installation	8/3/71	Installed on 50M10015 unit S/N 008 per TPS-ATM-FLT-0421	—	—	—	08:23	
QUAL-PC / Bldg. 4708	13	Check-out	8/14/71	Post manufacturing checkout per FLT-TCP-H-70009	09:15	15:20	06:05	14:28	

Sample (All Entries Fictional)

life history . . .

Section 3:

(1) The MSFC organization building number or subcontractor facility conducting the test will be entered in the "Location/Organization" block.
(2) Identification of separate and distinct events will be entered in the "Event" block by number, subject, and date. Subjects should include but not be limited to: inspection, test, maintenance, repairs, shipment, etc.
(3) Complete item history will be included in the "Summary of Chronological Events" using as a guide, applicable events listed in the heading.
(4) The Start and Stop time shall be recorded when required. The difference between stop and start times shall be added to the previous cumulative total to give the new total. If there are mechanical operations or cycle effects not proportional to the on-off, or total running time of the component, then these cycle should be tallied along with the run time entries.
(5) There shall be a stamp or initials entered for each completed event.
(6) Enter the DR Number in the "Summary of Chronological Events" column when an item is rejected.

section 3

Section 3 / Life History

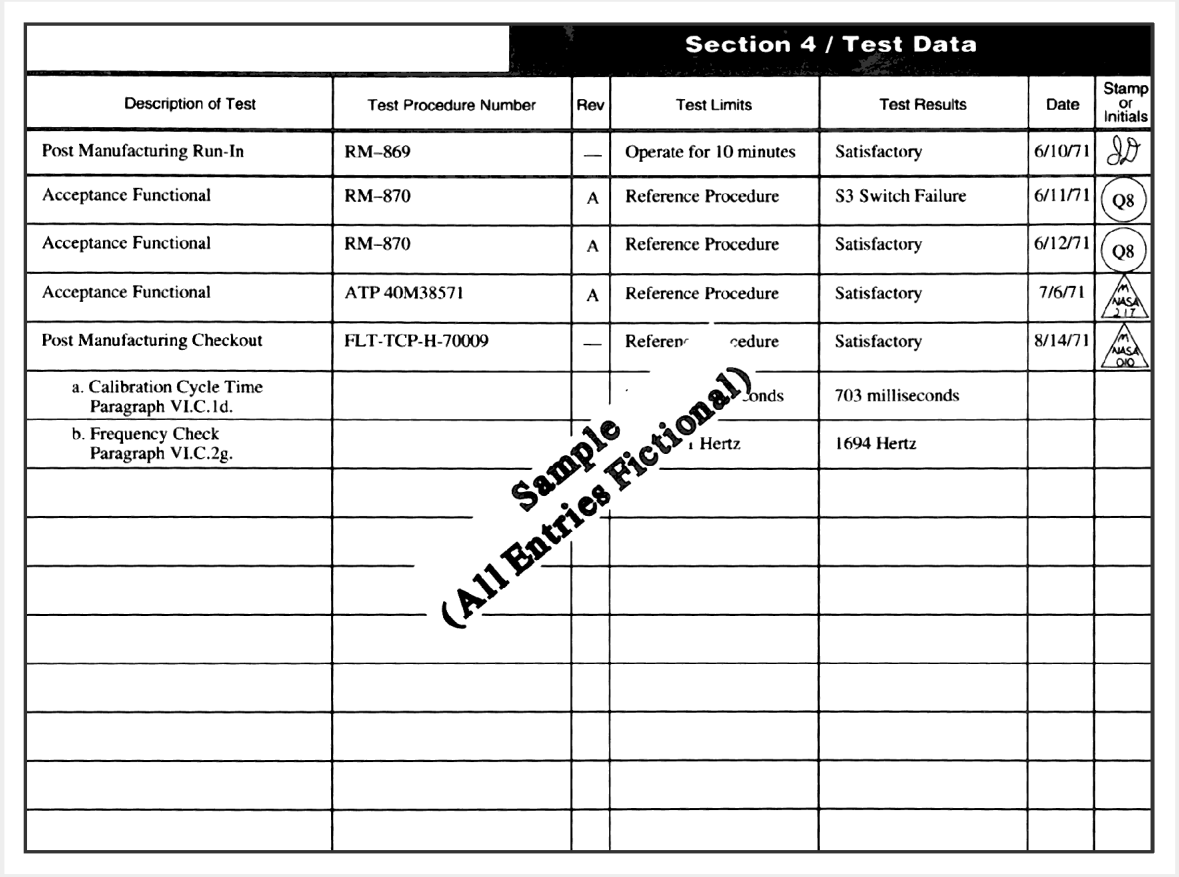
Organization / Location	Event No.	Event Subject	Date	Summary of Chronological Events (Test Document No./Test Description/Nature & Description of Malfunctions/Serial No. of Removed or Replaced Parts/Modifications/Adjustments/Repairs/Maintenance/Shipped/Rec'd/Environ./Etc.)	Running Time/Cycles Hours and Minutes/ ~ Start	Stop	Total Time/Cyc	Cum Total	Stamp or Initials

Section 3 / Life History

Organization	Event		Date	Summary of Chronological Events	Event				Stamp or Initials
Location	No.	Subject		Test Document No./Test Description/Nature & Description of Malfunctions/Serial No. of Removed or Replaced Parts/Modifications/Adjustments/Repairs/Maintenance/Shipped/Rec'd/Environ./Etc.	Start	Stop	Total Time/Cyc	Cum Total	

Section 3 / Life History

Organization	Event		Date	Summary of Chronological Events		Event				Stamp or Initials
Location	No.	Subject		Test Document No./Test Description/Nature & Description of Malfunctions/Serial No. of Removed or Replaced Parts/Modifications/Adjustments/Repairs/Maintenance/Shipped/Rec'd/Environ./Etc.		Start	Stop	Total Time/Cyc	Cum Total	



Section 4 / Test Data

Description of Test	Test Procedure Number	Rev	Test Limits	Test Results	Date	Stamp or Initials
Post Manufacturing Run-In	RM–869	—	Operate for 10 minutes	Satisfactory	6/10/71	
Acceptance Functional	RM–870	A	Reference Procedure	S3 Switch Failure	6/11/71	Q8
Acceptance Functional	RM–870	A	Reference Procedure	Satisfactory	6/12/71	Q8
Acceptance Functional	ATP 40M38571	A	Reference Procedure	Satisfactory	7/6/71	MAS 217
Post Manufacturing Checkout	FLT-TCP-H-70009	—	Referen[illegible]cedure	Satisfactory	8/14/71	MAS 010
a. Calibration Cycle Time Paragraph VI.C.1d.			[illegible]onds	703 milliseconds		
b. Frequency Check Paragraph VI.C.2g.			[illegible] Hertz	1694 Hertz		

Sample
(All Entries Fictional)

test data . . .

Section 4:

(1) The variable test data required to be recorded will be specified by Design Engineering in Section 2.
(2) Under "Description of Test", enter test procedure title or step and identification of the parameter being tested.
(3) Identify the test procedure title by number and revision level in the appropriate block.
(4) Under "Test Limits", indicate the measurement limits for the test being conducted.
(5) Under "Test Results", record the actual test measurement or satisfactory/ unsatisfactory.
(6) The test conductor's initials shall be noted in the column provided.
(7) Normally, when tests are performed, detailed description of test, limits and results need not be recorded herein. Reference to the test procedure and data should be adequate, i.e., "Test performed in accordance with FLT-TCP-H-70009".
(8) The wire list E.O. level which is used to test electrical assemblies shall be recorded under description of test if applicable.

section 4

Section 4 / Test Data

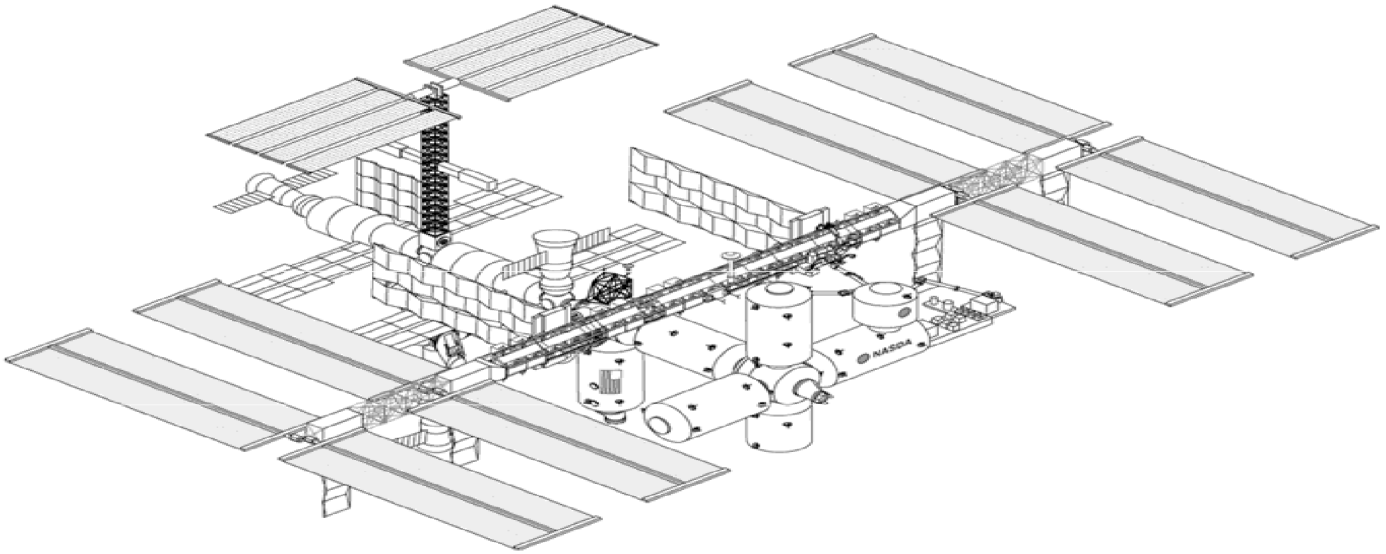
Description of Test	Test Procedure Number	Rev.	Test Limits	Test Results	Date	Stamp or Initials

Section 4 / Test Data

Description of Test	Test Procedure Number	Rev.	Test Limits	Test Results	Date	Stamp or Initials

Section 4 / Test Data

Description of Test	Test Procedure Number	Rev.	Test Limits	Test Results	Date	Stamp or Initials



LOG BOOK

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